SEQUENCE LISTING

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Kagaya, Shinji
Sugita, Yuji
Saito, Hirohisa

<120> METHODS FOR EXAMINATION FOR ALLERGIC DISEASES, AND DRUGS FOR TREATING ALLERGIC DISEASES

<130> 3462.1004-000

<140> 10/611,310
<141> 2003-07-01

<150> JP 2002-193841
<151> 2002-07-02

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<170> PatentIn Ver. 2.0

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tgt atc caa gcc caa tat ggg aca cca gca ccg agt ccg gga ccc cgt   164
Cys Ile Gln Ala Gln Tyr Gly Thr Pro Ala Pro Ser Pro Gly Pro Arg
          5                  10                  15

gac cac ctg gca agc gac ccc ctg acc cct gag ttc atc aag ccc acc   212
Asp His Leu Ala Ser Asp Pro Leu Thr Pro Glu Phe Ile Lys Pro Thr
     20                  25                  30

atg gac ctg gcc agc ccc gag gca gcc ccc gct gcc ccc act gcc ctg   260
Met Asp Leu Ala Ser Pro Glu Ala Ala Pro Ala Ala Pro Thr Ala Leu
 35                  40                  45                  50

ccc agc ttc agc acg ttc atg gac ggc tac aca gga gag ttt gac acc   308
Pro Ser Phe Ser Thr Phe Met Asp Gly Tyr Thr Gly Glu Phe Asp Thr
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ttc ctc tac cag ctg cca gga aca gtc cag cca tgc tcc tca gcc tcc   356
Phe Leu Tyr Gln Leu Pro Gly Thr Val Gln Pro Cys Ser Ser Ala Ser
             70                  75                  80
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Ser Ser Ala Ser Ser Thr Ser Ser Ser Ser Ala Thr Ser Pro Ala Ser
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gcc tcc ttc aag ttc gag gac ttc cag gtg tac ggc tgc tac ccc ggc   452
Ala Ser Phe Lys Phe Glu Asp Phe Gln Val Tyr Gly Cys Tyr Pro Gly
    100                 105                 110

ccc ctg agc ggc cca gtg gat gag gcc ctg tcc tcc agt ggc tct gac   500
Pro Leu Ser Gly Pro Val Asp Glu Ala Leu Ser Ser Ser Gly Ser Asp
115                 120                 125                 130

tac tat ggc agc ccc tgc tcg gcc ccg tcg ccc tcc acg ccc agc ttc   548
Tyr Tyr Gly Ser Pro Cys Ser Ala Pro Ser Pro Ser Thr Pro Ser Phe
                135                 140                 145

cag ccg ccc cag ctc tct ccc tgg gat ggc tcc ttc ggc cac ttc tcg   596
Gln Pro Pro Gln Leu Ser Pro Trp Asp Gly Ser Phe Gly His Phe Ser
            150                 155                 160

ccc agc cag act tac gaa ggc ctg cgg gca tgg aca gag cag ctg ccc   644
Pro Ser Gln Thr Tyr Glu Gly Leu Arg Ala Trp Thr Glu Gln Leu Pro
        165                 170                 175

aaa gcc tct ggg ccc cca cag cct cca gcc ttc ttt tcc ttc agt cct   692
Lys Ala Ser Gly Pro Pro Gln Pro Pro Ala Phe Phe Ser Phe Ser Pro
    180                 185                 190

ccc act ggc ccc agc ccc agc ctg gcc cag agc ccc ctg aag ttg ttc   740
Pro Thr Gly Pro Ser Pro Ser Leu Ala Gln Ser Pro Leu Lys Leu Phe
195                 200                 205                 210

ccc tca cag gcc acc cac cag ctg ggg gag gga gag agc tat tcc atg   788
Pro Ser Gln Ala Thr His Gln Leu Gly Glu Gly Glu Ser Tyr Ser Met
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cct acg gcc ttc cca ggt ttg gca ccc act tct cca cac ctt gag ggc   836
Pro Thr Ala Phe Pro Gly Leu Ala Pro Thr Ser Pro His Leu Glu Gly
            230                 235                 240

tcg ggg ata ctg gat aca ccc gtg acc tca acc aag gcc cgg agc ggg   884
Ser Gly Ile Leu Asp Thr Pro Val Thr Ser Thr Lys Ala Arg Ser Gly
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gcc cca ggt cca agt gaa ggc cgc tgt gct gtg tgt ggg gac aac gct   932
Ala Pro Gly Pro Ser Glu Gly Arg Cys Ala Val Cys Gly Asp Asn Ala
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tca tgc cag cat tat ggt gtc cgc aca tgt gag ggc tgc aag ggc ttc   980
Ser Cys Gln His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe
275                 280                 285                 290

ttc aag cgc aca gtg cag aaa aac gcc aag tac atc tgc ctg gct aac   1028
Phe Lys Arg Thr Val Gln Lys Asn Ala Lys Tyr Ile Cys Leu Ala Asn
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aag gac tgc cct gtg gac aag agg cgg cga aac cgc tgc cag ttc tgc   1076
Lys Asp Cys Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln Phe Cys
            310                 315                 320

cgc ttc cag aag tgc ctg gcg gtg ggc atg gtg aag gaa gtt gtc cga   1124
Arg Phe Gln Lys Cys Leu Ala Val Gly Met Val Lys Glu Val Val Arg
        325                 330                 335

aca gac agc ctg aag ggg cgg cgg ggc cgg cta cct tca aaa ccc aag   1172
Thr Asp Ser Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys
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cag ccc cca gat gcc tcc cct gcc aat ctc ctc act tcc ctg gtc ctt   1220
Gln Pro Pro Asp Ala Ser Pro Ala Asn Leu Leu Thr Ser Leu Val Leu
355                 360                 365                 370

gca cac ctg gat tca ggg ccc agc act gcc aaa ctg gac tac tcc aag   1268
Ala His Leu Asp Ser Gly Pro Ser Thr Ala Lys Leu Asp Tyr Ser Lys
                375                 380                 385

ttc cag gag ctg gtg ctg ccc cac ttt ggg aag gaa gat gct ggg gat   1316
Phe Gln Glu Leu Val Leu Pro His Phe Gly Lys Glu Asp Ala Gly Asp
            390                 395                 400

gta cag cag ttc tac gac ctg ctc tcc ggt tct ctg gag gtc atc cga   1364
Val Gln Gln Phe Tyr Asp Leu Leu Ser Gly Ser Leu Glu Val Ile Arg
        405                 410                 415

aag tgg gcg gag aag atc cct ggc ttt gct gag ctg tca ccg gct gac   1412
Lys Trp Ala Glu Lys Ile Pro Gly Phe Ala Glu Leu Ser Pro Ala Asp
    420                 425                 430

cag gac ctg ttg ctg gag tcg gcc ttc ctg gag ctc ttc atc ctc cgc   1460
Gln Asp Leu Leu Leu Glu Ser Ala Phe Leu Glu Leu Phe Ile Leu Arg
435                 440                 445                 450

ctg gcg tac agg tct aag cca ggc gag ggc aag ctc atc ttc tgc tca   1508
Leu Ala Tyr Arg Ser Lys Pro Gly Glu Gly Lys Leu Ile Phe Cys Ser
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ggc ctg gtg cta cac cgg ctg cag tgt gcc cgt ggc ttc ggg gac tgg   1556
Gly Leu Val Leu His Arg Leu Gln Cys Ala Arg Gly Phe Gly Asp Trp
            470                 475                 480

att gac agt atc ctg gcc ttc tca agg tcc ctg cac agc ttg ctt gtc   1604
Ile Asp Ser Ile Leu Ala Phe Ser Arg Ser Leu His Ser Leu Leu Val
        485                 490                 495

gat gtc cct gcc ttc gcc tgc ctc tct gcc ctt gtc ctc atc acc gac   1652
Asp Val Pro Ala Phe Ala Cys Leu Ser Ala Leu Val Leu Ile Thr Asp
    500                 505                 510

cgg cat ggg ctg cag gag ccg cgg cgg gtg gag gag ctg cag aac cgc   1700
Arg His Gly Leu Gln Glu Pro Arg Arg Val Glu Glu Leu Gln Asn Arg
515                 520                 525                 530
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atc gcc agc tgc ctg aag gag cac gtg gca gct gtg gcg ggc gag ccc   1748
Ile Ala Ser Cys Leu Lys Glu His Val Ala Ala Val Ala Gly Glu Pro
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cag cca gcc agc tgc ctg tca cgt ctg ttg ggc aaa ctg ccc gag ctg   1796
Gln Pro Ala Ser Cys Leu Ser Arg Leu Leu Gly Lys Leu Pro Glu Leu
            550                 555                 560

cgg acc ctg tgc acc cag ggc ctg cag cgc atc ttc tac ctc aag ctg   1844
Arg Thr Leu Cys Thr Gln Gly Leu Gln Arg Ile Phe Tyr Leu Lys Leu
        565                 570                 575

gag gac ttg gtg ccc cct cca ccc atc att gac aag atc ttc atg gac   1892
Glu Asp Leu Val Pro Pro Pro Pro Ile Ile Asp Lys Ile Phe Met Asp
    580                 585                 590

acg ctg ccc ttc tgacccctgc ctgggaacac gtgtgcacat gcgcactctc       1944
Thr Leu Pro Phe
595

atatgccacc ccatgtgcct ttagtccacg gacccccaga gcacccccaa gcctgggctt 2004

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Pro Thr Met Asp Leu Ala Ser Pro Glu Ala Ala Pro Ala Ala Pro Thr
         35                  40                  45

Ala Leu Pro Ser Phe Ser Thr Phe Met Asp Gly Tyr Thr Gly Glu Phe
     50                  55                  60
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Asp Thr Phe Leu Tyr Gln Leu Pro Gly Thr Val Gln Pro Cys Ser Ser
 65                  70                  75                  80

Ala Ser Ser Ser Ala Ser Ser Thr Ser Ser Ser Ser Ala Thr Ser Pro
                85                  90                  95

Ala Ser Ala Ser Phe Lys Phe Glu Asp Phe Gln Val Tyr Gly Cys Tyr
            100                 105                 110

Pro Gly Pro Leu Ser Gly Pro Val Asp Glu Ala Leu Ser Ser Ser Gly
        115                 120                 125

Ser Asp Tyr Tyr Gly Ser Pro Cys Ser Ala Pro Ser Pro Ser Thr Pro
    130                 135                 140

Ser Phe Gln Pro Pro Gln Leu Ser Pro Trp Asp Gly Ser Phe Gly His
145                 150                 155                 160

Phe Ser Pro Ser Gln Thr Tyr Glu Gly Leu Arg Ala Trp Thr Glu Gln
                165                 170                 175

Leu Pro Lys Ala Ser Gly Pro Pro Gln Pro Pro Ala Phe Phe Ser Phe
            180                 185                 190

Ser Pro Pro Thr Gly Pro Ser Pro Ser Leu Ala Gln Ser Pro Leu Lys
        195                 200                 205

Leu Phe Pro Ser Gln Ala Thr His Gln Leu Gly Glu Gly Glu Ser Tyr
    210                 215                 220

Ser Met Pro Thr Ala Phe Pro Gly Leu Ala Pro Thr Ser Pro His Leu
225                 230                 235                 240

Glu Gly Ser Gly Ile Leu Asp Thr Pro Val Thr Ser Thr Lys Ala Arg
                245                 250                 255

Ser Gly Ala Pro Gly Pro Ser Glu Gly Arg Cys Ala Val Cys Gly Asp
            260                 265                 270

Asn Ala Ser Cys Gln His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys
        275                 280                 285

Gly Phe Phe Lys Arg Thr Val Gln Lys Asn Ala Lys Tyr Ile Cys Leu
    290                 295                 300

Ala Asn Lys Asp Cys Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln
305                 310                 315                 320

Phe Cys Arg Phe Gln Lys Cys Leu Ala Val Gly Met Val Lys Glu Val
                325                 330                 335

Val Arg Thr Asp Ser Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys
            340                 345                 350

Pro Lys Gln Pro Pro Asp Ala Ser Pro Ala Asn Leu Leu Thr Ser Leu
        355                 360                 365
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Val Leu Ala His Leu Asp Ser Gly Pro Ser Thr Ala Lys Leu Asp Tyr
    370                 375                 380

Ser Lys Phe Gln Glu Leu Val Leu Pro His Phe Gly Lys Glu Asp Ala
385                 390                 395                 400

Gly Asp Val Gln Gln Phe Tyr Asp Leu Leu Ser Gly Ser Leu Glu Val
                405                 410                 415

Ile Arg Lys Trp Ala Glu Lys Ile Pro Gly Phe Ala Glu Leu Ser Pro
            420                 425                 430

Ala Asp Gln Asp Leu Leu Leu Glu Ser Ala Phe Leu Glu Leu Phe Ile
        435                 440                 445

Leu Arg Leu Ala Tyr Arg Ser Lys Pro Gly Glu Gly Lys Leu Ile Phe
    450                 455                 460

Cys Ser Gly Leu Val Leu His Arg Leu Gln Cys Ala Arg Gly Phe Gly
465                 470                 475                 480

Asp Trp Ile Asp Ser Ile Leu Ala Phe Ser Arg Ser Leu His Ser Leu
                485                 490                 495

Leu Val Asp Val Pro Ala Phe Ala Cys Leu Ser Ala Leu Val Leu Ile
            500                 505                 510

Thr Asp Arg His Gly Leu Gln Glu Pro Arg Arg Val Glu Glu Leu Gln
        515                 520                 525

Asn Arg Ile Ala Ser Cys Leu Lys Glu His Val Ala Ala Val Ala Gly
    530                 535                 540

Glu Pro Gln Pro Ala Ser Cys Leu Ser Arg Leu Leu Gly Lys Leu Pro
545                 550                 555                 560

Glu Leu Arg Thr Leu Cys Thr Gln Gly Leu Gln Arg Ile Phe Tyr Leu
                565                 570                 575

Lys Leu Glu Asp Leu Val Pro Pro Pro Pro Ile Ile Asp Lys Ile Phe
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Met Asp Thr Leu Pro Phe
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agaactccta aggaggagat tggacaggct ggactcccca ttgcttttct aaaaatcttg 240

gaaactttgt ccttcattga attacgacac tgtccacctt taatttcctc gaaaacgcct 300

gtaactcggc tgaagcc atg cct tgt gtt cag gcg cag tat ggg tcc tcg    350
                  Met Pro Cys Val Gln Ala Gln Tyr Gly Ser Ser
                    1               5                  10

cct caa gga gcc agc ccc gct tct cag agc tac agt tac cac tct tcg   398
Pro Gln Gly Ala Ser Pro Ala Ser Gln Ser Tyr Ser Tyr His Ser Ser
            15                  20                  25

gga gaa tac agc tcc gat ttc tta act cca gag ttt gtc aag ttt agc   446
Gly Glu Tyr Ser Ser Asp Phe Leu Thr Pro Glu Phe Val Lys Phe Ser
        30                  35                  40

atg gac ctc acc aac act gaa atc act gcc acc act tct ctc ccc agc   494
Met Asp Leu Thr Asn Thr Glu Ile Thr Ala Thr Thr Ser Leu Pro Ser
    45                  50                  55

ttc agt acc ttt atg gac aac tac agc aca ggc tac gac gtc aag cca   542
Phe Ser Thr Phe Met Asp Asn Tyr Ser Thr Gly Tyr Asp Val Lys Pro
60                  65                  70                  75

cct tgc ttg tac caa atg ccc ctg tcc gga cag cag tcc tcc att aag   590
Pro Cys Leu Tyr Gln Met Pro Leu Ser Gly Gln Gln Ser Ser Ile Lys
                80                  85                  90

gta gaa gac att cag atg cac aac tac cag caa cac agc cac ctg ccc   638
Val Glu Asp Ile Gln Met His Asn Tyr Gln Gln His Ser His Leu Pro
            95                  100                 105

ccc cag tct gag gag atg atg ccg cac tcc ggg tcg gtt tac tac aag   686
Pro Gln Ser Glu Glu Met Met Pro His Ser Gly Ser Val Tyr Tyr Lys
        110                 115                 120

ccc tcc tcg ccc ccg acg ccc acc acc ccg ggc ttc cag gtg cag cac   734
Pro Ser Ser Pro Pro Thr Pro Thr Thr Pro Gly Phe Gln Val Gln His
    125                 130                 135

agc ccc atg tgg gac gac ccg gga tct ctc cac aac ttc cac cag aac   782
Ser Pro Met Trp Asp Asp Pro Gly Ser Leu His Asn Phe His Gln Asn
140                 145                 150                 155

tac gtg gcc act acg cac atg atc gag cag agg aaa acg cca gtc tcc   830
Tyr Val Ala Thr Thr His Met Ile Glu Gln Arg Lys Thr Pro Val Ser
                160                 165                 170

cgc ctc tcc ctc ttc tcc ttt aag caa tcg ccc cct ggc acc ccg gtg   878
Arg Leu Ser Leu Phe Ser Phe Lys Gln Ser Pro Pro Gly Thr Pro Val
            175                 180                 185
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tct agt tgc cag atg cgc ttc gac ggg ccc ctg cac gtc ccc atg aac   926
Ser Ser Cys Gln Met Arg Phe Asp Gly Pro Leu His Val Pro Met Asn
        190                 195                 200

ccg gag ccc gcc ggc agc cac cac gtg gtg gac ggg cag acc ttc gct   974
Pro Glu Pro Ala Gly Ser His His Val Val Asp Gly Gln Thr Phe Ala
    205                 210                 215

gtg ccc aac ccc att cgc aag ccc gcg tcc atg ggc ttc ccg ggc ctg   1022
Val Pro Asn Pro Ile Arg Lys Pro Ala Ser Met Gly Phe Pro Gly Leu
220                 225                 230                 235

cag atc ggc cac gcg tct cag ctg ctc gac acg cag gtg ccc tca ccg   1070
Gln Ile Gly His Ala Ser Gln Leu Leu Asp Thr Gln Val Pro Ser Pro
                240                 245                 250

ccg tcg cgg ggc tcc ccc tcc aac gag ggg ctg tgc gct gtg tgt ggg   1118
Pro Ser Arg Gly Ser Pro Ser Asn Glu Gly Leu Cys Ala Val Cys Gly
            255                 260                 265

gac aac gcg gcc tgc caa cac tac ggc gtg cgc acc tgt gag ggc tgc   1166
Asp Asn Ala Ala Cys Gln His Tyr Gly Val Arg Thr Cys Glu Gly Cys
        270                 275                 280

aaa ggc ttc ttt aag cgc aca gtg caa aaa aat gca aaa tac gtg tgt   1214
Lys Gly Phe Phe Lys Arg Thr Val Gln Lys Asn Ala Lys Tyr Val Cys
    285                 290                 295

tta gca aat aaa aac tgc cca gtg gac aag cgt cgc cgg aat cgc tgt   1262
Leu Ala Asn Lys Asn Cys Pro Val Asp Lys Arg Arg Arg Asn Arg Cys
300                 305                 310                 315

cag tac tgc cga ttt cag aag tgc ctg gct gtt ggg atg gtc aaa gaa   1310
Gln Tyr Cys Arg Phe Gln Lys Cys Leu Ala Val Gly Met Val Lys Glu
                320                 325                 330

gtg gtt cgc aca gac agt tta aaa ggc cgg aga ggt cgt ttg ccc tcg   1358
Val Val Arg Thr Asp Ser Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser
            335                 340                 345

aaa ccg aag agc cca cag gag ccc tct ccc cct tcg ccc ccg gtg agt   1406
Lys Pro Lys Ser Pro Gln Glu Pro Ser Pro Pro Ser Pro Pro Val Ser
        350                 355                 360

ctg atc agt gcc ctc gtc agg gcc cat gtc gac tcc aac ccg gct atg   1454
Leu Ile Ser Ala Leu Val Arg Ala His Val Asp Ser Asn Pro Ala Met
    365                 370                 375

acc agc ctg gac tat tcc agg ttc cag gcg aac cct gac tat caa atg   1502
Thr Ser Leu Asp Tyr Ser Arg Phe Gln Ala Asn Pro Asp Tyr Gln Met
380                 385                 390                 395

agt gga gat gac acc cag cat atc cag caa ttc tat gat ctc ctg act   1550
Ser Gly Asp Asp Thr Gln His Ile Gln Gln Phe Tyr Asp Leu Leu Thr
                400                 405                 410
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ggc tcc atg gag atc atc cgg ggc tgg gca gag aag atc cct ggc ttc   1598
Gly Ser Met Glu Ile Ile Arg Gly Trp Ala Glu Lys Ile Pro Gly Phe
            415                 420                 425

gca gac ctg ccc aaa gcc gac caa gac ctg ctt ttt gaa tca gct ttc   1646
Ala Asp Leu Pro Lys Ala Asp Gln Asp Leu Leu Phe Glu Ser Ala Phe
        430                 435                 440

tta gaa ctg ttt gtc ctt cga tta gca tac agg tcc aac cca gtg gag   1694
Leu Glu Leu Phe Val Leu Arg Leu Ala Tyr Arg Ser Asn Pro Val Glu
    445                 450                 455

ggt aaa ctc atc ttt tgc aat ggg gtg gtc ttg cac agg ttg caa tgc   1742
Gly Lys Leu Ile Phe Cys Asn Gly Val Val Leu His Arg Leu Gln Cys
460                 465                 470                 475

gtt cgt ggc ttt ggg gaa tgg att gat tcc att gtt gaa ttc tcc tcc   1790
Val Arg Gly Phe Gly Glu Trp Ile Asp Ser Ile Val Glu Phe Ser Ser
                480                 485                 490

aac ttg cag aat atg aac atc gac att tct gcc ttc tcc tgc att gct   1838
Asn Leu Gln Asn Met Asn Ile Asp Ile Ser Ala Phe Ser Cys Ile Ala
            495                 500                 505

gcc ctg gct atg gtc aca gag aga cac ggg ctc aag gaa ccc aag aga   1886
Ala Leu Ala Met Val Thr Glu Arg His Gly Leu Lys Glu Pro Lys Arg
        510                 515                 520

gtg gaa gaa ctg caa aac aag att gta aat tgt ctc aaa gac cac gtg   1934
Val Glu Glu Leu Gln Asn Lys Ile Val Asn Cys Leu Lys Asp His Val
    525                 530                 535

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Thr Phe Asn Asn Gly Gly Leu Asn Arg Pro Asn Tyr Leu Ser Lys Leu
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Leu Gly Lys Leu Pro Glu Leu Arg Thr Leu Cys Thr Gln Gly Leu Gln
                560                 565                 570

cgc att ttc tac ctg aaa ttg gaa gac ttg gtg cca ccg cca gca ata   2078
Arg Ile Phe Tyr Leu Lys Leu Glu Asp Leu Val Pro Pro Pro Ala Ile
            575                 580                 585

att gac aaa ctt ttc ctg gac act tta cct ttc taagacctcc tcccaagcac 2131
Ile Asp Lys Leu Phe Leu Asp Thr Leu Pro Phe
        590                 595

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         35                  40                  45

Thr Glu Ile Thr Ala Thr Thr Ser Leu Pro Ser Phe Ser Thr Phe Met
     50                  55                  60

Asp Asn Tyr Ser Thr Gly Tyr Asp Val Lys Pro Pro Cys Leu Tyr Gln
 65                  70                  75                  80
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Met Pro Leu Ser Gly Gln Gln Ser Ser Ile Lys Val Glu Asp Ile Gln
                 85                  90                  95

Met His Asn Tyr Gln Gln His Ser His Leu Pro Pro Gln Ser Glu Glu
            100                 105                 110

Met Met Pro His Ser Gly Ser Val Tyr Tyr Lys Pro Ser Ser Pro Pro
        115                 120                 125

Thr Pro Thr Thr Pro Gly Phe Gln Val Gln His Ser Pro Met Trp Asp
    130                 135                 140

Asp Pro Gly Ser Leu His Asn Phe His Gln Asn Tyr Val Ala Thr Thr
145                 150                 155                 160

His Met Ile Glu Gln Arg Lys Thr Pro Val Ser Arg Leu Ser Leu Phe
                165                 170                 175

Ser Phe Lys Gln Ser Pro Pro Gly Thr Pro Val Ser Ser Cys Gln Met
            180                 185                 190

Arg Phe Asp Gly Pro Leu His Val Pro Met Asn Pro Glu Pro Ala Gly
        195                 200                 205

Ser His His Val Val Asp Gly Gln Thr Phe Ala Val Pro Asn Pro Ile
    210                 215                 220

Arg Lys Pro Ala Ser Met Gly Phe Pro Gly Leu Gln Ile Gly His Ala
225                 230                 235                 240

Ser Gln Leu Leu Asp Thr Gln Val Pro Ser Pro Pro Ser Arg Gly Ser
                245                 250                 255

Pro Ser Asn Glu Gly Leu Cys Ala Val Cys Gly Asp Asn Ala Ala Cys
            260                 265                 270

Gln His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys
        275                 280                 285

Arg Thr Val Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn
    290                 295                 300

Cys Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe
305                 310                 315                 320

Gln Lys Cys Leu Ala Val Gly Met Val Lys Glu Val Val Arg Thr Asp
                325                 330                 335

Ser Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro
            340                 345                 350

Gln Glu Pro Ser Pro Pro Ser Pro Pro Val Ser Leu Ile Ser Ala Leu
        355                 360                 365

Val Arg Ala His Val Asp Ser Asn Pro Ala Met Thr Ser Leu Asp Tyr
    370                 375                 380
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Ser Arg Phe Gln Ala Asn Pro Asp Tyr Gln Met Ser Gly Asp Asp Thr
385                 390                 395                 400

Gln His Ile Gln Gln Phe Tyr Asp Leu Leu Thr Gly Ser Met Glu Ile
                405                 410                 415

Ile Arg Gly Trp Ala Glu Lys Ile Pro Gly Phe Ala Asp Leu Pro Lys
            420                 425                 430

Ala Asp Gln Asp Leu Leu Phe Glu Ser Ala Phe Leu Glu Leu Phe Val
        435                 440                 445

Leu Arg Leu Ala Tyr Arg Ser Asn Pro Val Glu Gly Lys Leu Ile Phe
    450                 455                 460

Cys Asn Gly Val Val Leu His Arg Leu Gln Cys Val Arg Gly Phe Gly
465                 470                 475                 480

Glu Trp Ile Asp Ser Ile Val Glu Phe Ser Ser Asn Leu Gln Asn Met
                485                 490                 495

Asn Ile Asp Ile Ser Ala Phe Ser Cys Ile Ala Ala Leu Ala Met Val
            500                 505                 510

Thr Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu Gln
        515                 520                 525

Asn Lys Ile Val Asn Cys Leu Lys Asp His Val Thr Phe Asn Asn Gly
    530                 535                 540

Gly Leu Asn Arg Pro Asn Tyr Leu Ser Lys Leu Leu Gly Lys Leu Pro
545                 550                 555                 560

Glu Leu Arg Thr Leu Cys Thr Gln Gly Leu Gln Arg Ile Phe Tyr Leu
                565                 570                 575

Lys Leu Glu Asp Leu Val Pro Pro Ala Ile Ile Asp Lys Leu Phe
            580                 585                 590

Leu Asp Thr Leu Pro Phe
        595
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<213> Artificial Sequence

<220>
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<210> 6

<211> 22
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

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<213> Artificial Sequence

<220>
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